



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/812,567	03/21/2001	Jung-Ho Song	Q61616	2641

7590 01/06/2005

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC
2100 Pennsylvania Avenue, N.W.
Washington, DC 20037-3202

EXAMINER

CLARK, ISAAC R

ART UNIT	PAPER NUMBER
----------	--------------

2154

DATE MAILED: 01/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/812,567	SONG ET AL.	
	Examiner	Art Unit	
	Isaac R Clark	2154	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 September 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 September 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-8 are presented for examination.

Response to Amendment

2. Base on the amendment drawings filed on 09/10/2004, the objections to the drawings cited in the previous office action are withdrawn. The objections to the informalities in the specification are withdrawn based on the Applicants' amendment to the specification.
3. Applicant's arguments filed on 09/10/2004 have been fully considered but they are not persuasive for the following reasons:
4. With respect to claim 1, the Applicants argue that Cheng does not teach or suggest a "function control converting section for converting a function control demand by one of said IP-based networks to a function control command for one of said non IP-based networks." The Applicants further argues that Cheng teaches information moving from the non-IP network to the IP network and not in the opposite direction. The examiner respectfully traverses the Applicants' arguments.
5. Cheng discloses that a user at a web browser (210) activates the URL (makes a function control demand) of the HAVi web server, establishing an IP connection between the browser and the HAVi web server 350 (See Paragraph 0036). Cheng further discloses that the request is carried out by the executor 360 using underlying HAVi requester services (function control commands for said non IP network). Cheng discloses that the home page is displaced on the browser 210 in the IP network, thus

Art Unit: 2154

when the user clicks a link, IP based information is sent from the browser 210 to the web service executor 360 via the HAVi web server.

6. With respect to claim 7, the Applicants argue that Cheng does not teach or suggest "a fifth step of controlling said at least one of said target devices of said non IP-based networks by converting the command from said control device to the control command relevant to said at least one of said target devices and receiving a response from said at least one of said target devices". The examiner respectfully traverses the Applicants' argument.

7. Cheng discloses a web page displayed on a browser 210 from which a user may issue a control command from an IP based network (Paragraph 0038, lines 1-4) which in turn invoke HAVi services (control commands relevant to a target device) and control HAVi devices 250 in a non IP network (Fig. 2., Paragraph 0038 line 5). Further, Cheng explicitly states that commands are sent to the web server 350 in the non IP network from the web browser in the IP network (Paragraph 0038).

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Art Unit: 2154

9. Claims 1-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Cheng (US 20010032273).

10. As per claim 1, Cheng teaches an internet protocol (IP) interfacing apparatus for controlling predetermined target devices for non IP-based networks 130 (Fig. 2; Paragraph 0023, HAVi networks) with other predetermined target devices for IP-based networks 210 (Fig. 2; Paragraphs 0009 and 0024), comprising:

a dynamic home page assisting section (items 370 and 360, Fig. 3) for processing a dynamic homepage by collecting information on said predetermined target devices for non IP-based networks and assisting in construction of a dynamic web server (Paragraph 0036, lines 1-14); and

a function control converting section for converting a function control demand by one of said IP-based networks to a function control command for one of said non IP-based networks by converting a predetermined function selected in at least one of said IP-based networks to a control command in at least one of said non IP-based networks (Paragraph 0036, lines 15-25).

11. As per claim 2, Cheng teaches the interfacing apparatus of claim 1, wherein said dynamic home page assisting section assists in processing said dynamic home page by assisting in construction of said dynamic web server after collecting information on said non IP-based network target devices through a function control protocol (Paragraph 0036, lines 8-11).

12. As per claim 3, Cheng teaches the interfacing apparatus of claim 1, wherein said dynamic home page assisting section assists in processing said dynamic home page by

Art Unit: 2154

assisting in construction of said dynamic web server after collecting information on said non IP-based network devices through an interoperation protocol (Fig 3; Paragraphs 0007 and 0036; "HAVi Protocol").

13. As per claim 4, Cheng teaches the interfacing apparatus of claim 1, wherein said IP-based networks are accessible over the internet (Fig 2), and said non IP-based networks have a protocol standardized for controlling functions between devices (Paragraph 0024, "device control module, DCM" and "HAVi functional control module [FCM]").

14. As per claim 5, Cheng teaches the interfacing apparatus of claim 4, wherein said protocol is standardized in such a way that information is provided, said information includes functions of the target devices in said non IP-based networks (Paragraph 0036, lines 9-15).

15. As per claim 6, Cheng teaches the interfacing apparatus of claim 3, wherein said interoperation protocol applicable to said non IP-based networks is HAVi based on an IEEE1394 interface (Fig 2. item 2; Paragraph 0022). While Cheng does not explicitly describe an IEEE 1394 interface, compliance with IEEE 1394 is an inherent part of the HAVi specification.

16. As per claim 7, Cheng teaches a method for controlling non IP-based network target devices 250 (Fig 2. Paragraphs 0022 and 0023) in an IP interfacing apparatus 260 (Fig. 3) that assists in processing a dynamic home page in accordance with assistance in construction of a dynamic web server, by collecting information on predetermined target devices for non IP-based networks 130 (Fig. 3), and converting a

Art Unit: 2154

function control demand by an IP-based network to a function control command for a non IP-based network by converting a predetermined function selected (Paragraph 0036) in at least one of a plurality of IP-based networks 170 (Figure 3; Paragraph 0010) to a control command in at least one of the non IP-based networks (Paragraph 0036) , said method comprising:

- a first step of initializing between said IP interfacing apparatus and one of the non IP-based network target devices (Paragraph 0036, lines 1-4);

- a second step of demanding information from a node by said IP interfacing apparatus, and collecting information from said node when one of said target devices responds thereto (Paragraph 0036, lines 5-18);

- a third step of constructing a home page which can provide functions of said target devices based on the collected information from said node if said target devices are found to be predetermined devices (Paragraph 0036, lines 10-15);

- a fourth step of connecting a control device of said at least one of said plurality of IP-based network to said home page so that said control device accesses and controls at least one of said target devices (Paragraph 0036, lines 12-17);

- a fifth step of controlling said at least one of said target devices of said non IP-based networks by converting the command from said control device to the control command relevant to said at least one of said target devices and receiving a response from said at least one of said target devices (Paragraph 0038); and

- a sixth step of performing an operation in accordance with said converted control command relevant to said at least one of said target devices (Paragraph 0038).

Art Unit: 2154

17. As per claim 8, Cheng teaches the method of claim 7, further comprising a step of exchanging information on regulation of HAVi pertinent to a particular function as demanded between said predetermined non IP-based network target devices when said control device of said IP-based networks requests control of a particular function through the constructed home page (Paragraph 0043).

Conclusion

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- i. US 6,633,547 Akatsu et al. Monitor and control of IEEE1394 devices over a gateway to an external network
- ii. US 6,618,764 Shteyn Interaction between HAVI and a second network

19. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.


Art Unit: 2154

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isaac R Clark whose telephone number is (571)272-3961. The examiner can normally be reached on Monday-Friday 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A Follansbee can be reached on (571)272-3964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

IRC

 JOHN FOLLANSBEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100